



omii europe

open middleware infrastructure institute



EU Project: RI031844-OMII-Europe

The initial focus for OMII-Europe is to facilitate the development and porting of a common set of application level services to a number of major Grid software distributions, and further to develop tighter interoperability between different Grid distributions. This will provide greater application level portability and will thus greatly simplify the use of Grids, especially when those Grids are built on heterogeneous infrastructures.

Grid Software Providers

Many of the major Grid software providers such as **EGEE**, **UNICORE**, **Globus** and **CROWNgrid** are working with OMII-Europe to achieve these goals. OMII-Europe project partners are committed to the standards process and to working with standards organisations to develop and deliver common, open-source, standards-compliant services. OMII-Europe will obtain components and services from existing open source repositories and ensure that they are made available for the key Grid platforms already deployed in Europe. The emphasis is on the re-engineering of software components rather than on the development of new technology. The main focus of the proposed activities is to develop a **repository of quality-assured Grid services** running on existing major Grid infrastructures, in particular EGEE, UNICORE, Globus and CROWNgrid. These services will be robust, resilient, reliable, easy to deploy and easy to use by scientists across the ERA.

Quality Assurance

Central to OMII-Europe is Quality Assurance. All OMII-Europe-endorsed software components will undergo **rigorous testing**, including compliance testing. The testing methodology, procedures, tests and results will be published by OMII-Europe. This will provide infrastructure operators with a level of confidence and an audit trail for all software components more generally associated with commercial, production-level software. OMII-Europe will also work with other Grid projects and organisations to encourage a common approach to Quality Assurance.

Impartial Broker

OMII-Europe will position itself as an **impartial broker** for potential users of the key middleware platforms and the common services they will provide. In line with this, OMII-Europe will initiate development of a Grid **benchmarking** methodology and publish results on a number of major Grid distributions. This benchmark suite will be made available to the community and OMII-Europe will encourage community benchmark contributions. OMII-Europe will play a significant part in the overall global effort to take forward the state of the art in Grid technology towards the point where **commercial exploitation** can take over.

The OMII-Europe project brings together 16 partners from Europe, the USA & China

OMII-Europe Partners

- **University of Southampton** United Kingdom
- **Fujitsu Laboratories Europe** United Kingdom
- **Forschungszentrum Juelich** Germany
- **Kungl Tekniska Högskolan** Sweden
- **Istituto Nazionale di Fisica Nucleare** Italy
- **Poznan Supercomputing & Networking** Center Poland
- **University of Edinburgh** United Kingdom
- **CERN, European Organisation for Nuclear Research** Switzerland
- **University of Chicago** United States of America
- **NCSA, University of Illinois** United States of America
- **University of Southern California** Los Angeles, United States of America
- **University of Wisconsin-Madison** United States of America
- **Beihang University** China
- **China Institute of Computing Technology** Beijing, China
- **Computer Network Information Centre** Beijing, China
- **Tsinghua University** China

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